

# Installation Instructions

## ERV/PRV Downdraft Vent

### SAVE AND READ THESE INSTRUCTIONS

TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/UL 858-2001 AND CAN/CSA-C22.2 NO. 64  
STANDARD FOR HOUSEHOLD ELECTRIC COOKING AND LIQUID HEATING APPLIANCES.

### CONVENTIONS USED IN THESE INSTRUCTIONS



#### WARNINGS:

Must be followed carefully to avoid personal injury or damage.



#### NOTES:

Contain helpful hints and tips to facilitate the installation.

#### IMPORTANT

1. Before beginning installation, please thoroughly read and become familiar with these instructions.
2. Installation and service must be completed by a qualified installer or service agency.
3. Installer: Please leave these Installation Instructions with the owner.
4. Owner: Please keep these instructions for local electrical inspector's use and for future reference.
5. Read the accompanying Use & Care Manual prior to operating this appliance.

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# IMPORTANT SAFETY INSTRUCTIONS



## WARNINGS:

1. Read all instructions before using the appliance.
3. Install or locate this appliance only in accordance with these installation instructions.
4. Use this appliance only for its intended use as described in this manual.
6. Do not operate this appliance if it has a damaged electrical cord or plug, if it is not working properly or if it has been damaged or dropped.
7. This appliance should be serviced only by qualified service personnel. Contact the nearest DACOR Authorized Servicer at (800) 772-7778, or at [www.dacor.com](http://www.dacor.com) for examination, repair or adjustment.
8. Do not cover or block any openings on the appliance.
10. Do not immerse the electrical cord or plug in water.
11. Keep the electrical cord away from heated surfaces.
12. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the national Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
13. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
14. Duct fans must always be vented to the outdoors.
15. To reduce the risk of fire, use only metal duct work to install raised vents.
16. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
17. TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:
  - Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
  - Always turn hood ON when cooking at high heat or when cooking flaming foods.
  - Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
  - Use proper pan size. Always use cookware appropriate for the size of the surface element.
18. TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:
  - SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
- NEVER PICK UP A FLAMING PAN - You may be burned.
- DO NOT USE WATER, including wet dishcloths or towels - a violent steam explosion will result.
- Use an extinguisher ONLY if:
  - You know you have a Class ABC extinguisher, and you already know how to operate it.
  - The fire is small and contained in the area where it started.
  - The fire department is being called.
  - You can fight the fire with your back to an exit.

## Verifying the Package Contents

- Use and Care manual
- Anchoring Legs

## Installation Planning

A qualified technician must complete the installation of this appliance. Proper installation is your responsibility.

## WARNING:

**Failure to disconnect power may result in electrical shock or fire hazard! If the electric service provided does not meet the product specifications, do not proceed with the installation. Call the selling dealer or a licensed electrician.**

## Electrical Power Supply Requirements

It is the owner's responsibility to ensure that the electrical connection of this appliance is performed by a qualified electrician. The electrical installation, including minimum supply wire size and grounding, must be in accordance with the National Electric code ANSI/NFPA 70-1993\* (or latest revision) and local codes and ordinances.

\*A copy of this standard may be obtained from:  
National Fire Protection Association  
1 Batterymarch Park  
Quincy, Massachusetts 02269-9101

The correct 120VAC, 60Hz, 15A circuit must be supplied for this appliance from a separate, grounded, circuit that is protected by a properly sized circuit breaker or time delay fuse.

## Duct Planning

## WARNINGS

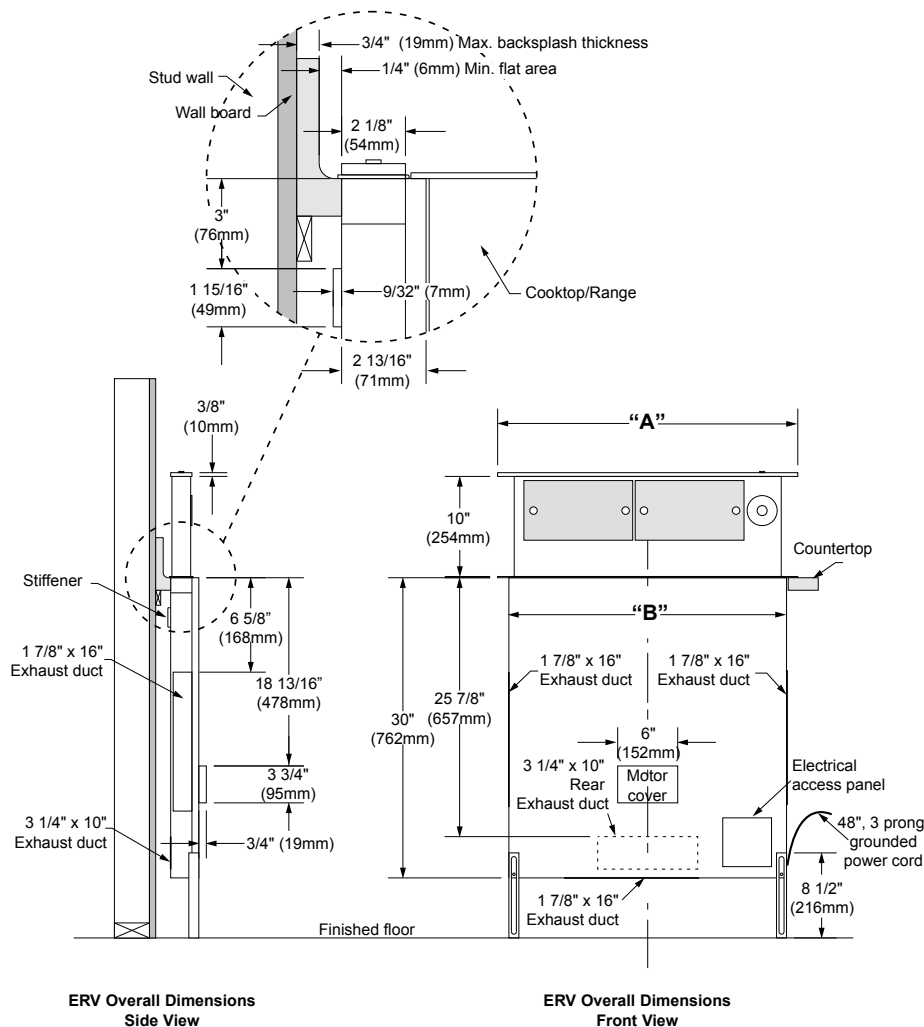
1. To reduce the risk of fire and to properly exhaust air, ducted fans must be vented to outside. Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages.
2. Improper installation, adjustment, alteration, service, or maintenance can cause personal injury or property damage.
3. To reduce the risk of fire, use only ductwork materials deemed acceptable by state, municipal and local codes.

## NOTES:

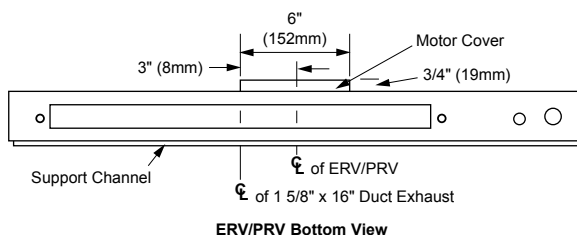
1. Best performance is achieved by using round duct instead of rectangular, especially when elbows are required.
2. If multiple elbows are needed, ensure that there is a minimum of 24" of straight duct between any two elbows.
3. Avoid "S" or "back to back" configurations caused by adjacent elbows.

Raised Vent System Specifications			
Raised Vent Model No.	For Use With	For Use with Blower	Duct Size
ERV/PRV30	30" Ranges/Cooktops	REMP3/16, ILB 8/10	3 1/4"x10", 8" & 10"
ERV/PRV36	36" Cooktops	REMP3/16, ILB 8/10	3 1/4"x10", 8" & 10"
PRV46	46" Cooktops	REMP3/16, ILB 8/10	3 1/4"x10", 8" & 10"
ERV48	48" Cooktops	REMP3/16, ILB 8/10	3 1/4"x10", 8" & 10"

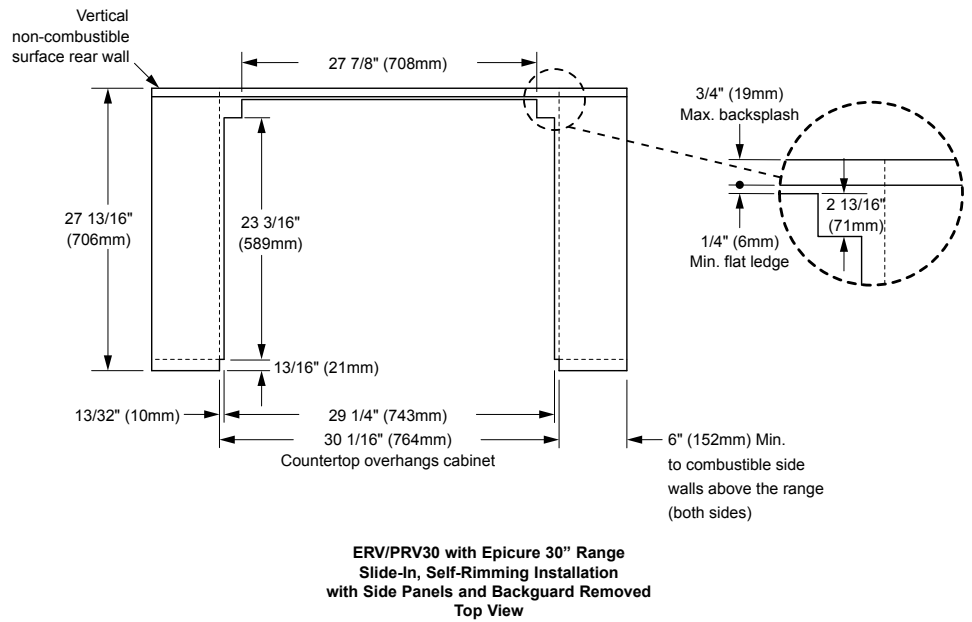
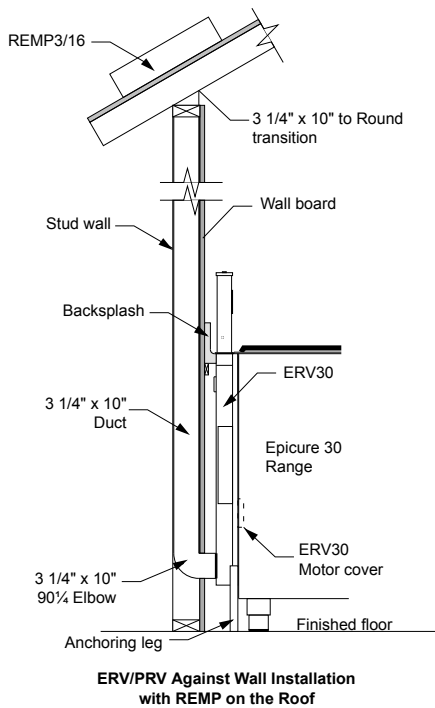
For detailed information on the remote blowers, refer to the Remote Blowers Installation Instructions.



Model	Width "A"	Width "B"
ERV/PRV30	30" (762mm)	27 3/4" (705mm)
ERV/PRV36	36" (914mm)	33 3/4" (857mm)
PRV46	46" (1168mm)	43 3/8" (1102mm)
ERV48	48" (1219mm)	43 3/8" (1102mm)



- To ensure that your installation meets this requirement, add the actual straight length of duct to the equivalent straight length of all duct fittings to determine the total equivalent straight length of duct. (Refer to the table above, which shows various common duct fittings with their equivalent straight lengths for various common duct sizes). If this total equivalent straight length is less than or equal to the maximum limits specified, then the installation is proper. Consider the duct size that corresponds to the majority of the duct used in the installation.



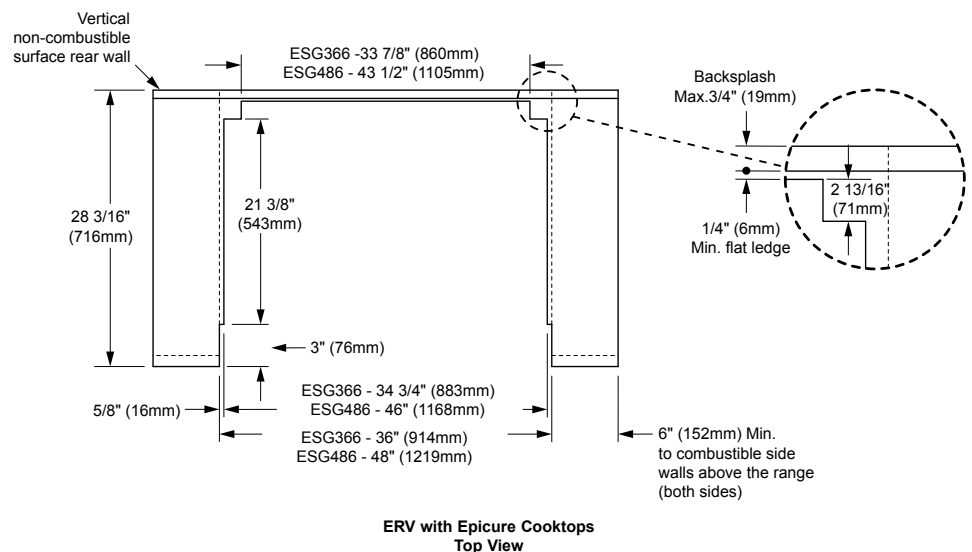
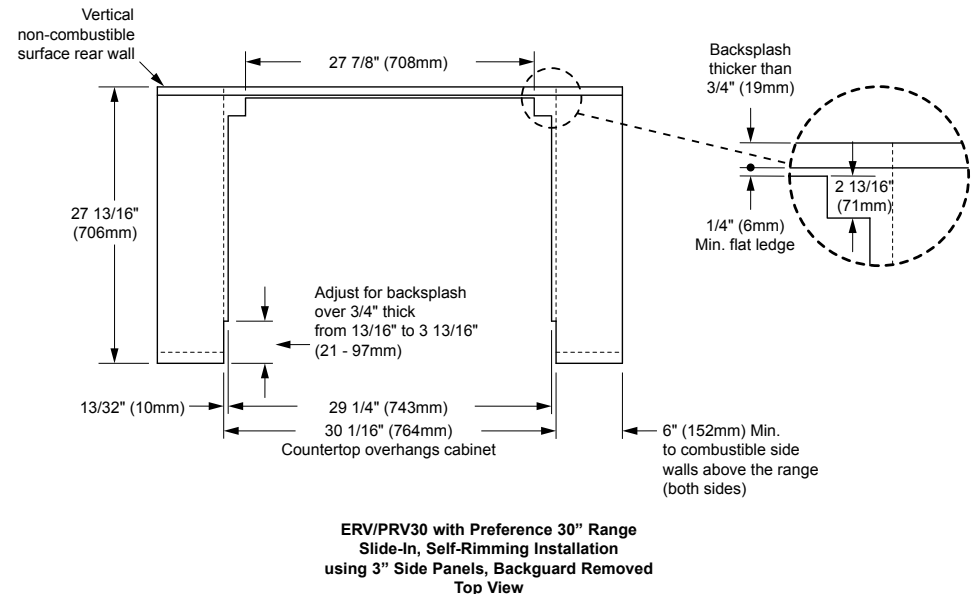
## Countertop Preparation

### ⚠ WARNINGS:

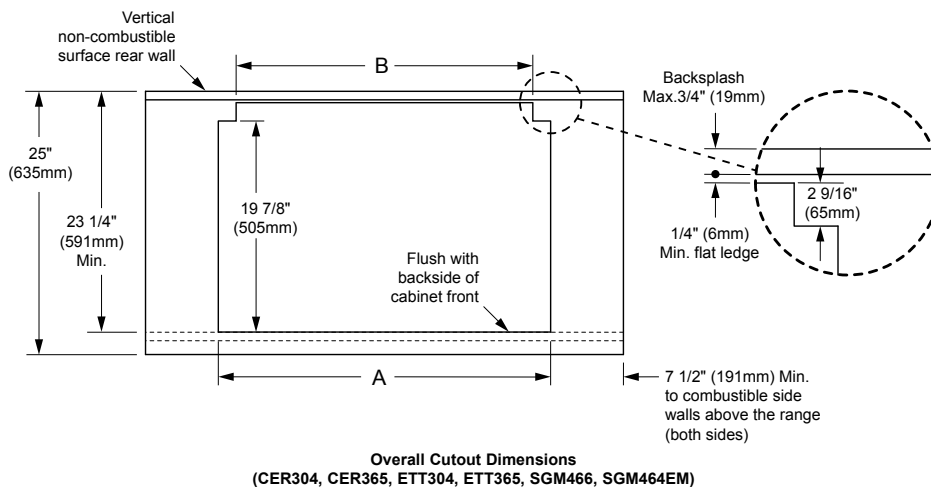
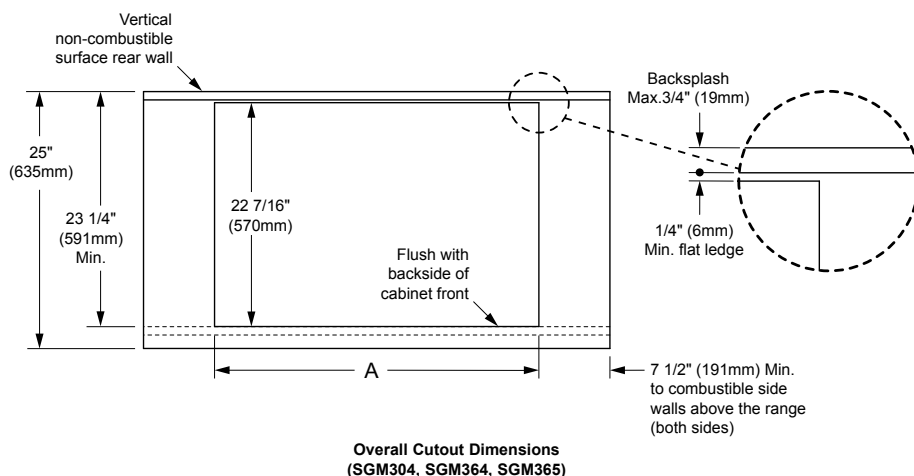
- To reduce the risk of personal injury caused by reaching over a hot appliance, cabinet storage space located directly above the cooktop should be avoided.**
- Do not store combustible materials or items adversely affected by heat in cabinet areas above the appliance.**
- Follow the instructions regarding minimum safe clearances and installation location. Failure to do so may result in a fire or safety hazard.**

Plan the installation so that all required minimum clearances between the cooktop, overhead cabinets and adjacent vertical walls are provided. Refer to the cooktop/range installation instructions for the minimum dimensions specific to the particular appliance being installed.

The DACOR Raised Vent System is designed to remove the contaminants and by-products that result when cooking with gas or electric appliances. The vent system consists of the vent intake along with a remote blower and an inline blower if needed. The raised vent downdraft systems are compatible for use with select DACOR cooktops and ranges, therefore, these instructions offer specific guidelines for mounting the raised vents behind DACOR cooktops and ranges.



Dacor Model No.	Cutout "A"	Cutout "B"
CER304	28 1/2"	27 1/2"
CER365	34 1/2"	33 1/2"
ETT304	28 1/2"	27 1/2"
ETT365	34 1/2"	33 1/2"
SGM304	27 1/2"	-
SGM364	33 3/4"	-
SGM365	33 3/4"	-
SGM466	19 7/8"	43 1/2"
SGM464EM	19 7/8"	43 1/2"



#### NOTE:

Verify that the raised vent and blower being installed are a matched pair before beginning the installation.

For installation of the raised vent system, provide an opening in the countertop as shown in the Countertop Preparation section. Position the cutout so all required minimum clearances are met. Make certain that the minimum flat countertop area meets or exceeds the combined overall width and overall depth, as shown.

#### Installing the ERV

#### NOTE:

The vent must be installed in a vertical orientation. Do not mount the vent on a slant or angle.

Remove the knockout from the plenum by cutting the tape and metal cross overs to remove the insert.

Loosely attach the anchoring legs to the left and right sides of the plenum using the hex nuts provided. Place the vent into the rear of the countertop cutout. Adjust the anchoring leg height so that the end caps are gently resting on the counter, then tighten the hex nuts. Secure the anchoring legs to the cabinet/floor with the screws provided.

#### Connecting the Exhaust Duct

#### NOTE:

Use duct tape to seal the connection between the blower outlet and duct. Support the duct weight as necessary to ensure sealed joints.

For the side or bottom knockouts use the supplied transition. For the rear knockout attach a 3 1/4" x 10" duct.

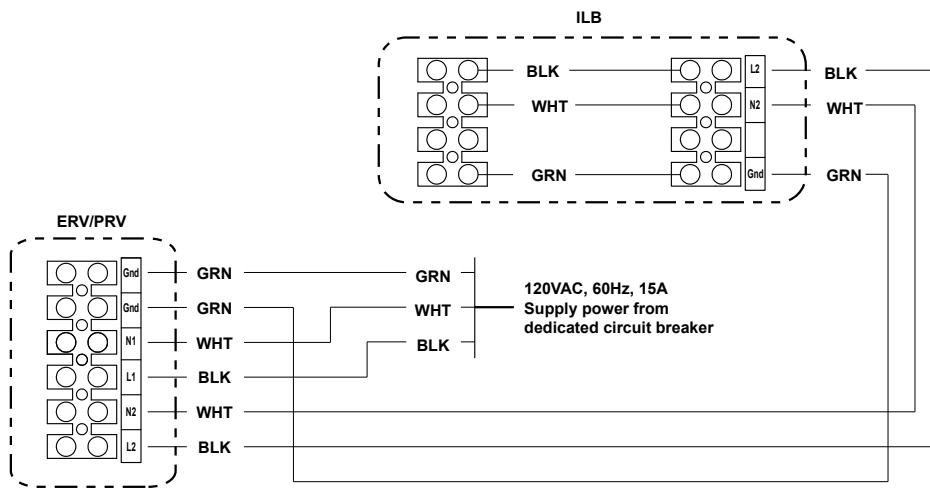
#### Electrical Connection

#### WARNINGS:

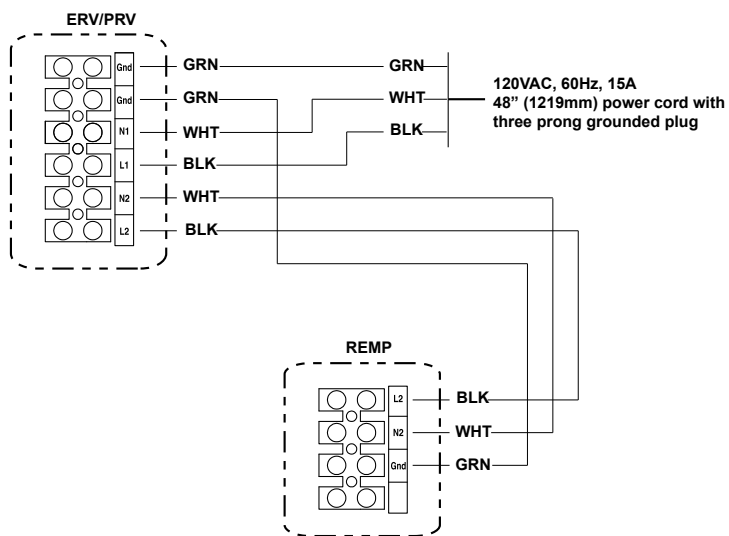
1. Ensure that the power supply is disconnected before proceeding.
2. Verify that the power supply matches the ratings found on the appliance data plate before proceeding.
3. The complete appliance must be properly grounded at all times when electrical power is applied.
4. Do not ground the appliance with the neutral (white) house supply wire. A separate ground wire must be utilized.
5. If aluminum house supply wiring is used, splice the appliance copper wires to the aluminum house wiring with special connectors designed and agency-certified for this purpose. Follow the connector manufacturer's recommended procedure carefully. Improper connection can result in a fire hazard.
6. Failure to complete electrical connections properly may result in a damaged or non-functional system. Follow the wiring diagrams carefully to ensure a proper installation.

Both vent systems require a properly grounded, 120 VAC, 60 Hz., 15 Amp electrical service. Max. full line load is 8 amps. Always use a dedicated circuit. Do not use same circuit that cooktop is using.

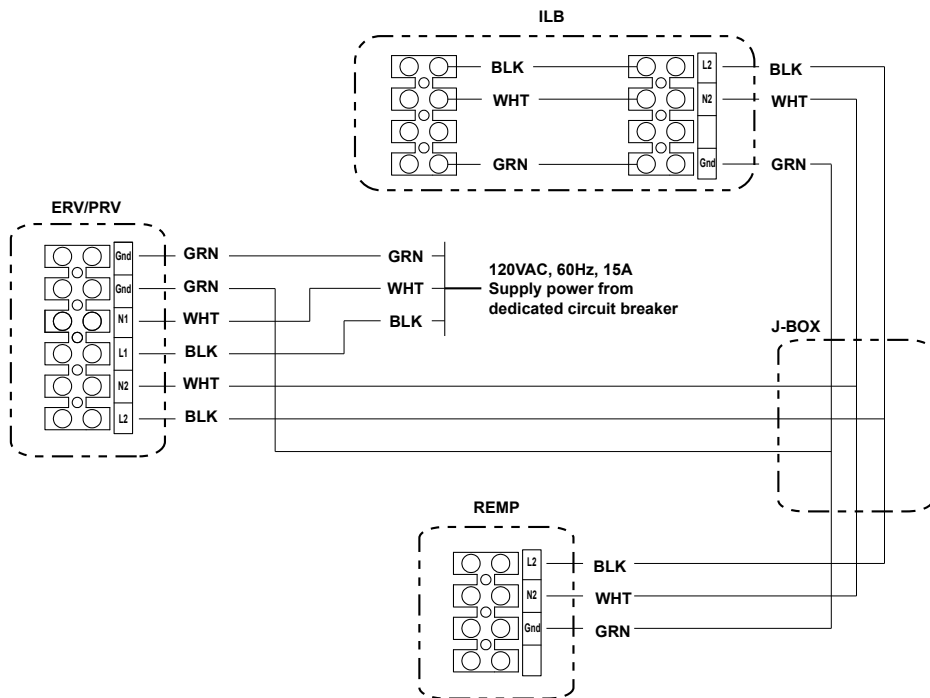
Make all electrical connections between the vent and blowers, then connect power to the vent as per the wiring diagrams. Use wire nuts provided and electrical tape to secure all wiring connections at the blowers.



Wiring of ERV/PRV with ILB



Wiring of ERV/PRV with REMP



Wiring of ERV/PRV with ILB and REMP

## Cooktop/Range Installation



### **WARNING:**

1. **The cooktops and ranges have very different installation requirement. Please make sure you read the Installation Instructions for the accompanying cooktop/range thoroughly before continuing the installation process.**
  2. **After the cooktop/range has been installed ensure that the top cap on the vent intake does not catch on the back edge of the cooktop/range when the intake is lowered. If interference does occur, adjust the position of the cooktop by moving it against the front edge of the countertop cutout, then re-secure the cooktop to the countertop. Also, ensure that the vent anchoring legs have been properly secured to the cabinet base using the screws provided in the instructions envelope. Failure to eliminate interference may result in permanent damage to the vent.**
- Press the top cap up/down switch once to raise the ERV to its operating position.
  - In the up position, turn the variable speed control switch in both direction to verify that the blower is operating correctly.
  - Turn the variable speed control switch counter-clockwise to hi-speed and clockwise to low speed.
  - Press the top cap up/down switch once to lower the ERV pinnacle.

## Verifying the Operation



### **WARNINGS:**

1. **If the vent system is not operational after completion of the installation, do not attempt to repair it. See the Problem Solving section of the Use & Care Manual, then call a qualified service technician if the system is still not functional.**
2. **Always disconnect the appliances from the electrical power when servicing them.**
3. **Install the two (2) front filters and the grill prior to operating the vent. Refer to the Use & Care Manual for instructions regarding filter and grill installation.**



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**NOTES:**

**Specifications contained within are subject to change without notice.  
No liability is assumed by DACOR for changes in specifications.**

Web Site: [www.dacor.com](http://www.dacor.com)  
For a Dealer/Service: (800) 772-7778  
Corporate Phone: (800) 793-0093

